

## FLOW RATE SENSOR

## ABSTRACT OF DISCLOSURE

There is provided a flow rate sensor comprising: a pair of heating resistors for heating a sensor tube; a  
5 temperature sensor for controlling respective temperatures of the heating resistors; and a case for holding the heating resistors and the temperature sensor. The flow rate sensor is adapted to detect a flow rate of a fluid flowing in the  
10 sensor tube, based on variations of voltages applied to the heating resistors, which variations occur according to the flow rate of the fluid. The flow rate sensor further comprises voltage applying means for arbitrarily setting an increase in temperature of each of the heating resistors. The sensor tube has opposite ends thereof thermally  
15 connected to the case. The temperature sensor is positioned to be equidistant from the opposite ends of the sensor.